

# CHEMISTRY

## Faculty

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Because chemistry deals with the composition of substances and their interactions to produce new substances, students in a wide variety of majors benefit from a knowledge of its fundamentals.

Students who have had no high school chemistry and those with majors like agriculture, forestry, and occupational therapy begin with CHEM 1005 and perhaps 1006 (concurrent enrollment in 1005 required). Chemistry, engineering, pre-professional (medicine, veterinary, pharmacy, and medical technology), biology, physics, and geology majors begin with CHEM 1025 and 1028 and continue with selected 2000 level courses.

1. A maximum of four semester credits may be applied toward graduation by completing any combination of CHEM 1005, 1006, 1025, and 1028.

2. Students who are taking CHEM 1005 in order to prepare for CHEM 1025 and 1035 need not take 1006.

3. Students who expect to take one or more chemistry laboratory courses must provide eye protection in the form of 1) prescription eyeglasses or 2) laboratory goggles which may be purchased at the bookstore. Please note that we strongly urge that contact lenses not be worn in the laboratory even under laboratory goggles. Goggles will not prevent irritating vapors from getting under contact lenses to cause much discomfort and pain. Contact lens wearers are urged to be sure to have a pair of prescription glasses to wear in the laboratory when they begin their chemistry studies.

In order to obtain a degree in chemistry students must achieve a 2.0 GPA in those courses taken in chemistry.

## Associate of Science Degree Chemistry

This transfer program prepares students for a four-year degree in chemistry. After the bachelor's degree, graduates may be employed in a variety of industries, including food and beverages, manufacturing, pharmaceuticals, petroleum and energy, commercial and fine chemicals, lab analysis, environmental monitoring and testing and many others.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

#### 1. Exploration and Participation

Included in the major requirements below

#### 2. Communication

ENGL 1010 English I: Composition . . . . . 3

ENGL 1020 English II: Composition . . . . . 3

#### 3. Relationship with the World

Human behavior . . . . . 3

U.S. and Wyoming constitutions . . . . . 3

Cultural environment . . . . . 3

#### 4. General Education Electives

Must be chosen from areas 1, 2, or 3 above.

#### 5. Physical Education . . . . . 1

### Major Requirements (Minimum 24 credits)

CHEM 1025 Chemistry I . . . . . 3

CHEM 1028 Chemistry Laboratory I . . . . . 1

CHEM 1035 Chemistry II . . . . . 3

CHEM 1038 Chemistry Laboratory II . . . . . 1

CHEM 2230 Quantitative Analysis . . . . . 4

CHEM 2320 Organic Chemistry I . . . . . 3

CHEM 2325 Organic Chemistry Laboratory I . . . . . 1

CHEM 2340 Organic Chemistry II . . . . . 3

CHEM 2345 Organic Chemistry Laboratory II . . . . . 1

\*\*MATH 1450 Pre-Calculus Algebra and  
Trigonometry . . . . . 5

MATH 2200 Calculus I . . . . . 5

PHYS 1310 College Physics I . . . . . 4

Electives . . . . . 13

\*\*Exact entry level mathematics course is determined by the students performance on the Math Placement Exam.

At least one year of German is a baccalaureate degree requirement of chemistry majors at most universities.

To obtain a degree in chemistry, a student must obtain a grade of "C" or better in all major requirements.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.